

WEST Search History

DATE: Tuesday, February 13, 2007

<u>Hide?</u>	<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L23	9623899	5
<input type="checkbox"/>	L22	L21 and facs	1
<input type="checkbox"/>	L21	9638553	5
<input type="checkbox"/>	L20	9504824 and (light scattering)	1
<input type="checkbox"/>	L19	9504824 and facscan	0
<input type="checkbox"/>	L18	9504824 and facs	0
<input type="checkbox"/>	L17	9504824	10
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L16	9504824	0
<input type="checkbox"/>	L15	l7 and p21	3
<input type="checkbox"/>	L14	5612185 and p21	0
<input type="checkbox"/>	L13	5612185 and (retroviral library)	3
<input type="checkbox"/>	L12	5612185 and (six parameter)	6
<input type="checkbox"/>	L11	L9 and (six parameter)	64
<input type="checkbox"/>	L10	L9 and (library retroviral)	33
<input type="checkbox"/>	L9	L8 and (cellular phenotypes)	70
<input type="checkbox"/>	L8	L7	80
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR</i>			
<input type="checkbox"/>	L7	L6 and multiparameter	158
<input type="checkbox"/>	L6	facscan	5075
<input type="checkbox"/>	L5	9727212	6
<input type="checkbox"/>	L4	L3 and (retroviral library)	3
<input type="checkbox"/>	L3	L1 and (FACS)	9
<input type="checkbox"/>	L2	L1 and (FACS multiparameter)	10
<input type="checkbox"/>	L1	6365362	34

END OF SEARCH HISTORY

(FILE 'HOME' ENTERED AT 11:22:41 ON 13 FEB 2007)

FILE 'CA' ENTERED AT 11:23:11 ON 13 FEB 2007

L1. 5530 S FACS
L2. 1462 S L1 AND FLOW CYTOMET?
L3. 45 S L1 AND LIGHT(2W)SCAT?
L4. 1 S L3 AND FLUOR?(3W) (UPTAKE OR RELEASE)
L5. 5529 S L1 NOT L4
L6. 0 S L5 AND FIVE(3W)PARAMETERS
L7. 165 S L5 AND ANNEXIN
L8. 60 S L7 AND FLUORES?
L9. 0 S L8 AND ENZYME(2W)ACTI?
L10. 4 S L8 AND ENZYME
L11. 56 S L8 NOT L10
L12. 7 S L11 NOT 1999-2007/PY
L13. 49 S L11 NOT L12
L14. 1449 S L2 NOT L13
L15. 16 S L14 AND MULTIPARAMETER

ANSWER 16 OF 16 CA COPYRIGHT 2007 ACS on STN

TI C-kit is expressed by primitive human hematopoietic cells that give rise to colony-forming cells in stroma-dependent or cytokine-supplemented culture

AU Simmons, Paul J.; Aylett, Gabriella W.; Niutta, Silvana; To, L Bik; Juttner, Christopher A.; Ashman, Leonie K.

SO Experimental Hematology (New York, NY, United States). (1994), 22(2), 157-65

CODEN: EXHMA6; ISSN: 0301-472X

PY 1994

AB Using monoclonal antibody (MAB) YB5.B8, the authors have examined the expression of the c-kit protein, the receptor for the hematopoietic cytokine stem cell factor (SCF), on primitive hematopoietic cells. Bone marrow mononuclear cells (BMMNC) enriched for immature cells by differential agglutination using the lectin soybean agglutinin (SBA) were subjected to multiparameter fluorescence activated cell sorting (FACS) based on light-scattering properties, the expression of the c-kit protein and the CD34 antigen, and the retention of the vital fluorescent dye, Rhodamine 123 (Rh123). Sorted populations were assayed for their content of directly clonogenic progenitor cells (colony-forming units-granulocyte/macrophage [CFU-GM], burst-forming units-erythroid [BFU-E], and multipotential colony-forming units [CFU-Mix]) and for the presence of more primitive progenitor cells (pre-CFU). The latter were assayed by their ability to initiate and sustain hematopoiesis in a standard stromal cell-dependent culture system and their capacity for de novo generation of clonogenic progenitors in response to a combination of 6 recombinant hematopoietic cytokines in a stroma-independent suspension culture assay. A mean of 76% of CD34+ cells were found to coexpress c-kit. The majority of directly clonogenic cells (98% of CFU-GM, 98% of CFU-Mix, and 85% of BFU-E) were found in the CD34+ c-kit+ fraction. Similarly, all pre-CFU were recovered in the CD34+c-kit+Rh123dull fraction, irresp. of whether the cells were maintained on marrow stromal cells or in cytokine-supplemented liquid culture. A mean of 87% of the CD34+Rh123dull cells also expressed c-kit. Since SCF has been reported to act as a growth factor for early lymphoid cells as well as myeloid cells, the authors looked for coexpression of c-kit and early lymphoid markers in the CD34+ population by multiparameter flow cytometry. Coexpression of c-kit on a minority of cells with markers of B or T lineages was observed. The majority of early lymphoid cells, however, appeared to lack c-kit expression. This was confirmed by the finding that only 4% of c-kit+CD34+ cells showed terminal deoxynucleotidyl transferase activity, compared with 25% of the c-kit-CD34+ cells.